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INFORMATION DISCLOSURE
STATEMENT
Examining Group 1634
Patent Application
Docket No. GJE-78
Serial No. 09/937,784

Glenn P. Ladwig
Glenn P. Ladwig, Patent Attorney

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Arun K. Chakrabarti
Art Unit : 1634
Applicant : Daniel Henry Densham
Serial No. : 09/937,784
Filed : September 28, 2001
Conf. No. : 7070
For : Polynucleotide Sequencing Using a Helicase

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.97 AND 1.98

Sir:

In accordance with 37 CFR §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. Copies of the cited documents are enclosed.

This information is being submitted subsequent to the later of three months after the filing date of the present application or the mailing of the first Office Action on the merits, but before the mailing of a final action or the notice of allowance. Please charge the fee of \$180.00 to Deposit Account No. 19-0065.

06/09/2003 GNORDOF1 00000007 190065 09937784
03 FC:1806 180.00 CH

The applicant respectfully asserts that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statements.

Respectfully submitted,



Glenn P. Ladwig
Patent Attorney
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GPL/mv

Attachments: Form PTO/SB/08 (3 pages)
Copies of references cited



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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	1	of	3	Application Number	09/937,784
				Filing Date	September 28, 2001
				First Named Inventor	Daniel Henry Densham
				Group Art Unit	1634
				Examiner Name	Arun K. Chakrabarti
				Attorney Docket Number	GJE-78

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	6,355,420	B1	Chan	03-12-2002
	U2	6,263,286	B1	Gilmanshin et al.	07-17-2001
	U3	6,221,642	B1	O'Donnell	04-24-2001
	U4	6,210,896	B1	Chan	04-03-2001
	U5	6,159,687		Vind	12-12-2000
	U6	5,801,042		Chang et al.	09-01-1998
	U7	5,753,439		Smith et al.	05-19-1998
	U8	5,620,854		Holzrichter et al.	04-15-1997
	U9	5,360,714		Seeger	11-01-1994
	U10	10/089,877		Densham (patent application)	04-30-2002
	U11	09/937,800		Densham (patent application)	09-27-2001
	U12	09/463,549		Densham (patent application)	01-27-2000
	U13				
	U14				
	U15				
	U16				
	U17				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Office ³	Number ⁴	Kind Code ⁵ (if known)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	F1	WO	00/60114	A2	Densham	10-12-2000
	F2	WO	00/53805	A1	Stempie et al.	09-14-2000
	F3	WO	00/09757	A1	Tegenfeldt et al.	02-24-2000
	F4	WO	99/10366	A1	Yang et al.	03-04-1999
	F5	WO	98/40496	A1	Brandis et al.	09-17-1998
	F6	WO	97/26368	A1	Muller	07-24-1997
	F7	WO	97/09451	A1	Chatterjee	03-13-1997
	F8	WO	94/21822	A1	Koster	09-24-1994
	F9	WO	93/21340	A1	Rosenthal et al.	10-28-1993
	F10	WO	91/06678	A1	Tsien	05-16-1991

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/937,784
Sheet	2	of	3	Filing Date	September 28, 2001
				First Named Inventor	Daniel Henry Densham
				Group Art Unit	1634
				Examiner Name	Arun K. Chakrabarti
				Attorney Docket Number	GJE-78

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² <i>(if known)</i>			
U1						
U2						
U3						
U4						
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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ <i>(if known)</i>				
F1	WO	90/13666	A1	Garland et al.	11-15-1990	All		
F2	WO	90/05303	A1	Bergstrom et al.	05-17-1990	All		
F3	EP	0 727 496	A2	Tabor et al.	11-24-1994	All		
F4	EP	0 669 395	A2	Seibl et al.	02-24-1995	All		
F5	EP	0 655 506	A1	Tabor et al.	11-24-1994	All		
F6								
F7								
F8								
F9								
F10								

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

3

of

3

Complete if Known

Application Number	09/937,784
Filing Date	September 28, 2001
First Named Inventor	Daniel Henry Densham
Group Art Unit	1634
Examiner Name	Arun K. Chakrabarti
Attorney Docket Number	GJE-78

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	FUREY, S. et al. "Use of Fluorescence Resonance Energy Transfer to Investigate the Conformation of DNA Substrates Bound to the Klenow Fragment" <i>Biochemistry</i> , 1998, 37:2979-2990.	
	R2	HA, T. et al. "Single-molecule fluorescence spectroscopy of enzyme conformational dynamics and cleavage mechanism" <i>Proc. Natl. Acad. Sci. USA</i> , February 1999, 96:893-898.	
	R3	HA, T., et al. "Probing the interaction between two single molecules: Fluorescence resonance energy transfer between a single donor and a single acceptor" <i>Proc. Natl. Acad. Sci. USA</i> , June 1996, 93:6264-6268.	
	R4	SCHWARZ, T. et al. "Detection of nucleic acid hybridization using surface plasmon resonance" <i>Trends in Biotechnology</i> , October 1991, 9(10):339-340.	
	R5	WEISS, S. "Fluorescence Spectroscopy of Single Biomolecules" <i>Science</i> , March 12, 1999, 283:1676-1683.	
	R6		
	R7		
	R8		
	R9		
	R10		
	R11		
	R12		
	R13		

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